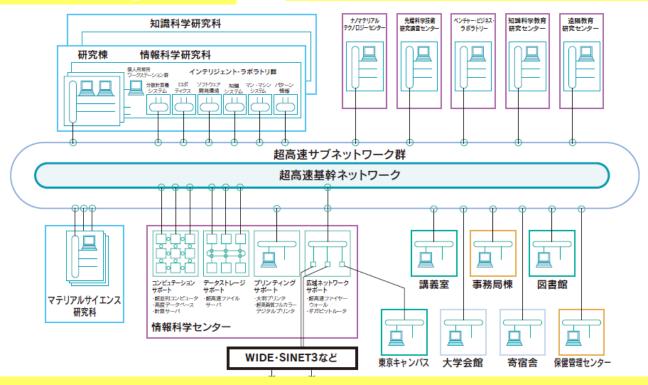
What is JAIST I-Env.

- Consisting of network and information equipment.
- Supporting information processing for research and education.

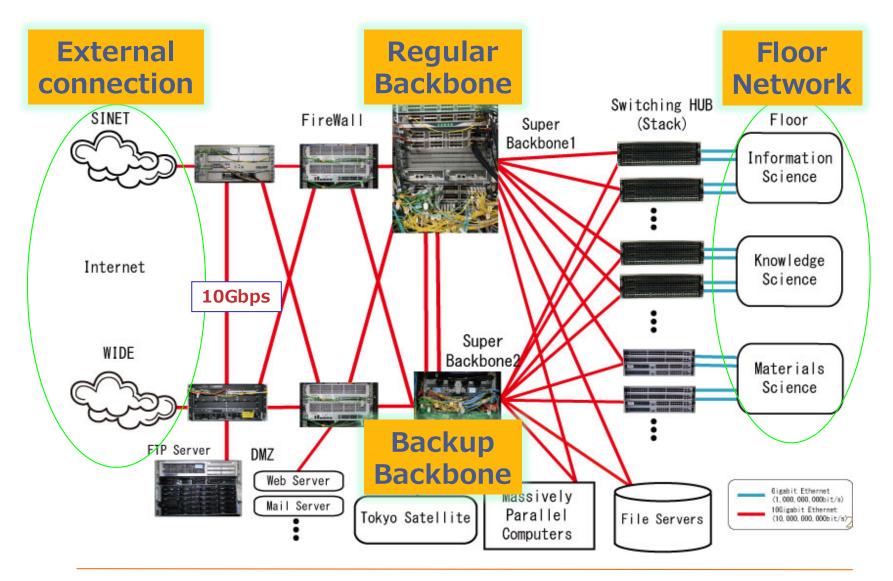
Centralized management

24/7 Service (Schedule blackout 1day/year)



From user devices to massive computational servers

Overview of FRONTNET



Key Features of JAIST I-Env.

- Centralized Management for Terminal, Network & Storage
 - Client: Laptop PCs are distributed to all students.
 - Server: Supporting both Windows and Linux.
 - File: Providing centralized data storage with backup.
 - Computation: You can share supercomputers.
 - Network: You can connect Giga-bit class connection at your booth.
- Uniform Services at High Level
 - Freely use of all resources on JAIST I-Env. anytime & anywhere.
 - Uniform access by high-speed wired and wireless LAN.
 - Centralized data management from our cloud services.
 - Transparent access to supercomputers.
 - Wide-bandwidth connection to internet and academic network.

Equipment of JAIST I-Env.

High-Performance Computers





Cray XC40 (2017)



LMPCC(2020)

JAIST Cloud Systems



VPCC (2018)



File Servers



DDN GRIDScaler (2017) Service Volume: 1.2PB

10Gbit/s broad-band access(2006~)



High-Speed Network



SurfacePro6(2020) SurfacePro(2018,19) SurfacePro4(2017)

Dell EMC Isilon (2020)

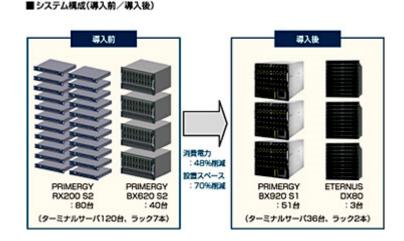
Innovativeness of JAIST I-Env.

Award on "Energy Consumption Reduction on ICT Equipment by Introducing Advanced Campus Private Cloud system" (Prevention activity of global warming, Minister of the Environment, 2010)

JAIST情報センターでは先端科学技術分野の研究データの生成、蓄積、利用を支える高度なICT環境の整備を進めておりましたが、学生、教職員、事務職員間ではサーバ使用の繁忙期間が異なることからサーバの稼働率にばらつきがありました。これを解決するために、使用目的や期間に合わせて必要な時に必要なコンピュータ能力を利用できる環境を整備した結果、従来使っていた約120台のサーバを、エネルギー削減効果に優れたブレードサーバなど54台に集約することにより、稼働率を向上し、全体で消費電力を48%削減したことが高く評価されたものです。



Prof. Matsuzawa



http://www.jaist.ac.jp/news/press/2010/1215.html

Social Contribution via JAIST I-Env.

Letter of appreciation on cooperation for information services at Fukushima Daiichi Nuclear Disaster

- 東日本大震災に伴う福島第一原子力発電所の事故により、都民の環境放射線情報への関心が急激に高まり、環境放射線測定結果の情報公開サーバ(http://monitoring.tokyo-eiken.go.jp)に処理能力を大幅に超えるアクセスが集中し、情報提供に支障を生じました。
- 同センターからの協力要請に対して、情報センターの宇多助教らは、以下のような協力を実施
 - 1) 本学で運用しているミラー・サーバ(ftp.jaist.ac.jp)を用いた情報発信機能の代替
 - 2) 東京都のマスター・サーバの性能改善・増強の方策に関する助言



Assist. Prof Uda



Letter of appreciation

http://www.jaist.ac.jp/news/award/2011/post-300.html

Press articles on Our XC30







読売新聞 4月4日朝刊30面(石川面)

毎日新聞 4月4日朝刊22面(石川面)

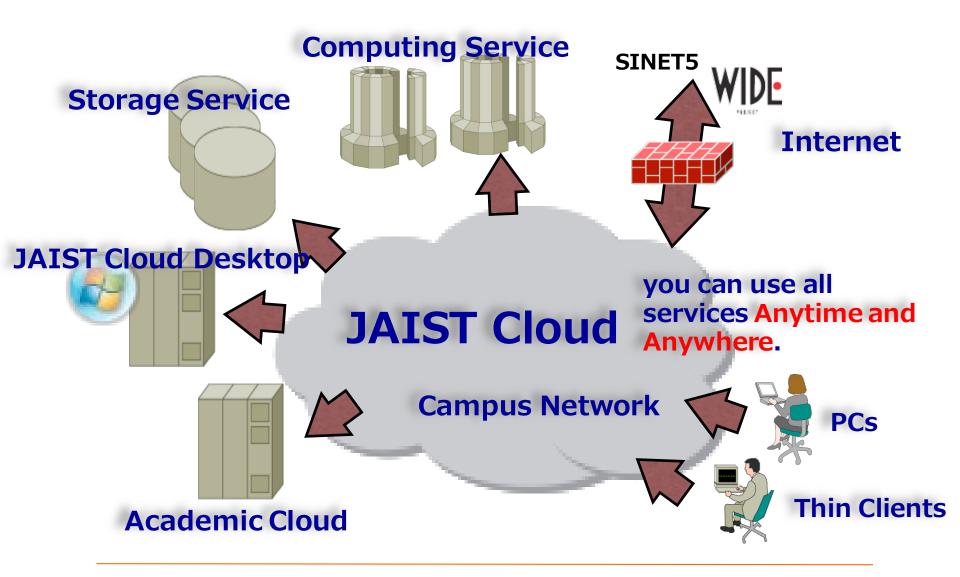
- Available for all students and faculty members
- Workshop for users holds on June and Oct.

Summary of JAIST I-Env.

JAIST Cloud

- Uniform and centralized management of data
- Providing uniform environment, anytime and anywhere
- Users can focus on their research activities.
- Advanced equipment in I-Env.
- Operation by high technical skills
- Contribution to society via technologies cultivated in I-Env.

Architecture of JAIST I-Env.



Surface Pro

Students can borrow a MS Surface Pro one by one.





JAIST Cloud Desktop



- All students are basically provided 1 Surface Pro.
- Anyone can use same environment from any clients in JAIST.
 - Using VMware Horizon Client.
- Different OS servers are available.
 - Research: Windows, Linux servers
- All files can be stored and backed up at file servers.
- Available on JAIST Cloud Desktop (Windows/Linux)
 - Microsoft Office
 - Image Processing/DTP/PDF Maker (Adobe Creative Cloud)
 - Computation/Visualization software (Matlab, Mathematica ETC)
 - Others (MobaXterm, Firefox, Thunderbird etc)

Computing Servers



Surface



LMPCC(2020)
Large memory:Large
Scale



Cray XC40 (2017)
Most powerful
in JAIST (660.4 TFLOPS)



- Available 24/7 (except outage and maintenance)
- All students and faculty members can use them.
- Various libraries/software for scientific calculation are available.

Software lineup

- Available Software on JAIST
 - Microsoft umbrella agreement ※1
 - http://www.jaist.ac.jp/iscenter/en/software/microsoft/
 - MATLAB umbrella agreement ※1
 - ESET Endpoint Protection ※2
 - ※1 Additionally, available on privately-owned devices (Office 365)
 - ※2 Additionally, available on privately-owned devices
 - Other Software
 - https://www.jaist.ac.jp/iscenter/en/software/

Printing · Bookbinding

- JAIST Printing Service
 - Color Multifunction Printer
- Large sized Printer (60-inch)
 - For A0/A1 Poster
- Combined printer (including Copy/Scanner/Bookbinder)
- Media Cutter
- Simple book binder
- Big scanner



- Printing in black and white recommend because of cost trimming.
- Please restock paper (from administrative office) and toner (from RCACI)